

In re Application of:  
Worley et al.  
Application No.: 09/245,277  
Filed: February 5, 1999  
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PATENT  
Attorney Docket No.: JHU1530-3

**Amendments to the Claims:**

Please amend claims 65-68 and 72 as set forth below.

Please cancel claims 64, 70 and 71 without prejudice or disclaimer.

Please add new claims 73-75 as presented below.

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of the Claims**

Claims 1-64 (Canceled)

65. (Currently Amended) An isolated nucleic acid sequence encoding an amino acid sequence of SEQ ID NO: 27.

66. (Currently Amended) An isolated nucleic acid sequence comprising at least 40 bases in length, and hybridizing to the sense or antisense strand of a second nucleic acid under moderately stringent or highly stringent hybridization conditions, said second nucleic acid having a sequence as set forth in SEQ ID NO: 26, ~~and~~ wherein the isolated nucleic acid is identical to a contiguous portion of the sequence as set forth in SEQ ID NO: 26 and wherein the nucleic acid is expressed in response to seizure in a subject.

67. (Currently Amended) The isolated nucleic acid sequence of claim 66, wherein said hybridization conditions are moderately stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO<sub>4</sub> (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.

68. (Currently Amended) The isolated nucleic acid sequence of claim 66, wherein said hybridization conditions are highly stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO<sub>4</sub> (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.

Claims 69-71 (Canceled)

72. (Currently Amended) An isolated nucleic acid sequence as set forth in SEQ ID NO: 26.

73. (New) An isolated nucleic acid sequence comprising at least 12 bases in length, and hybridizing to the sense or antisense strand of a second nucleic acid under moderately stringent or highly stringent hybridization conditions, said second nucleic acid having a sequence as set forth in SEQ ID NO: 27, wherein the nucleic acid is expressed in response to seizure in a subject and wherein the isolated nucleic acid is identical to a contiguous portion of the sequence as set forth in SEQ ID NO: 27.

74. (New) The isolated nucleic acid sequence of claim 73, wherein said hybridization conditions are moderately stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO<sub>4</sub> (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.

75. (New) The isolated nucleic acid of claim 73, wherein said hybridization conditions are highly stringent hybridization conditions, wherein said hybridization conditions include 1-15 ng/mL of isolated nucleic acid probe hybridizing to said second nucleic acid bound to a nitrocellulose filter, hybridization in 25 mM KPO<sub>4</sub> (pH 7.4), 5X SSC, 5X Denhart's solution, 50 µg/mL denatured

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sonicated salmon sperm DNA, 50% formamide, 10% Dextran sulfate at 42°C, with washes at 50°C in 2X SSC and 0.1% SDS.